

Flotaire Laboratory Column Flotation Cell

A lab-scale tool for evaluating the flotation characteristics of coal and mineral feeds.

The 3-inch diameter Flotaire measures how a specific feed responds to bubble size, frother dosage, wash water, and pulp level. Runs are held consistent by Deister's automatic pulp level control and metered reagent addition, so results reflect the feed and the settings rather than operator variation.

Measured, not assumed.



Test results and operating parameters scale up directly to determine commercial size Column Flotation Cell requirements. The clear acrylic column keeps the micro bubble-and-froth process visible throughout, so behavior can be observed and adjusted mid-run.

COLUMN DIAMETER
3 inches

OPERATION
Batch or continuous

APPLICATIONS
Coal & mineral feeds

CONSTRUCTION
Acrylic & stainless steel

SYSTEMS & CONTROLS



- Micro-bubble generation via air and water flow meters
- Froth wash water flow control
- Automatic pulp level control with float switch



- Electric frother metering pump
- Variable-speed feed and tailings pumps
- Feed slurry mixer for proper conditioning

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